

FIG. 1A

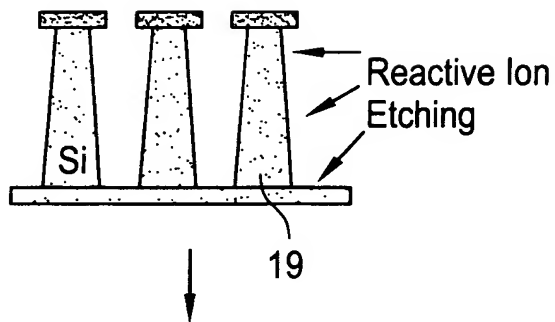


FIG. 1G

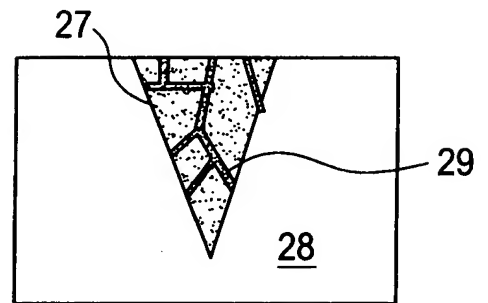


FIG. 1B

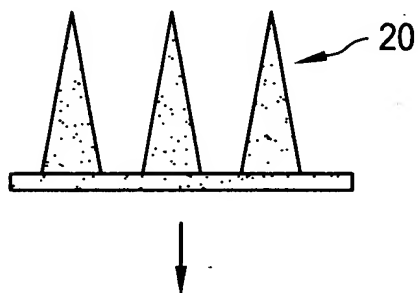


FIG. 1F

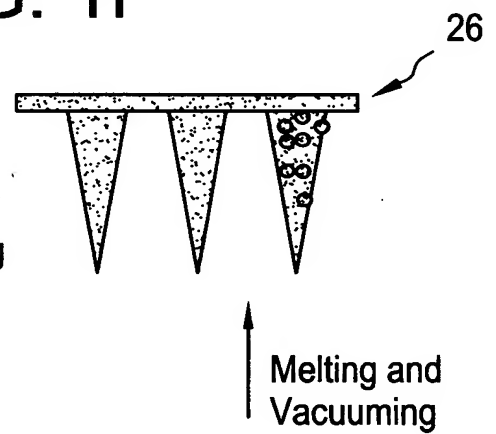


FIG. 1C

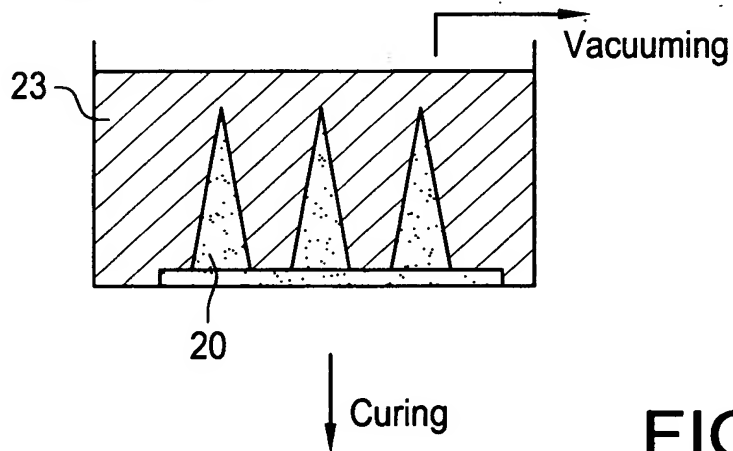


FIG. 1E

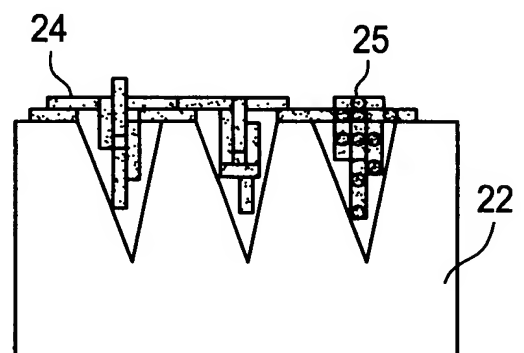


FIG. 1D



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FIG. 2A

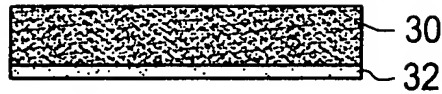


FIG. 2B

Aluminum deposition

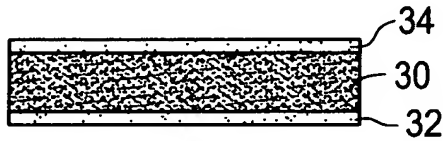


FIG. 2C

Photoresist Coating

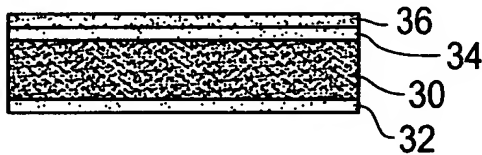


FIG. 2D

UV Exposure

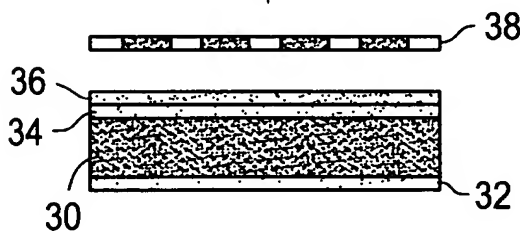


FIG. 2G

Reactive Ion Etching

A cross-sectional view showing the result of reactive ion etching. The aluminum layer 34 has been etched into a series of triangular peaks, labeled 42. The photoresist blocks 38 are still present on top of the peaks. The underlying layers 30 and 32 are visible.

FIG. 2E

Developing

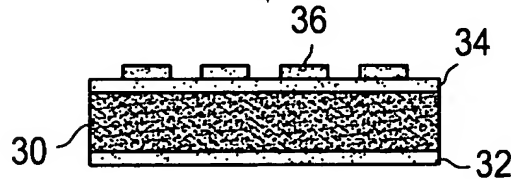


FIG. 2F

Al etching

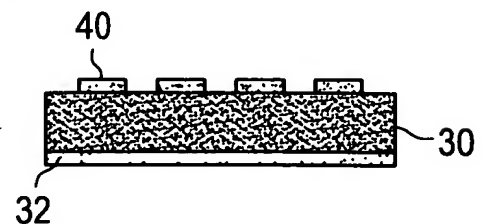
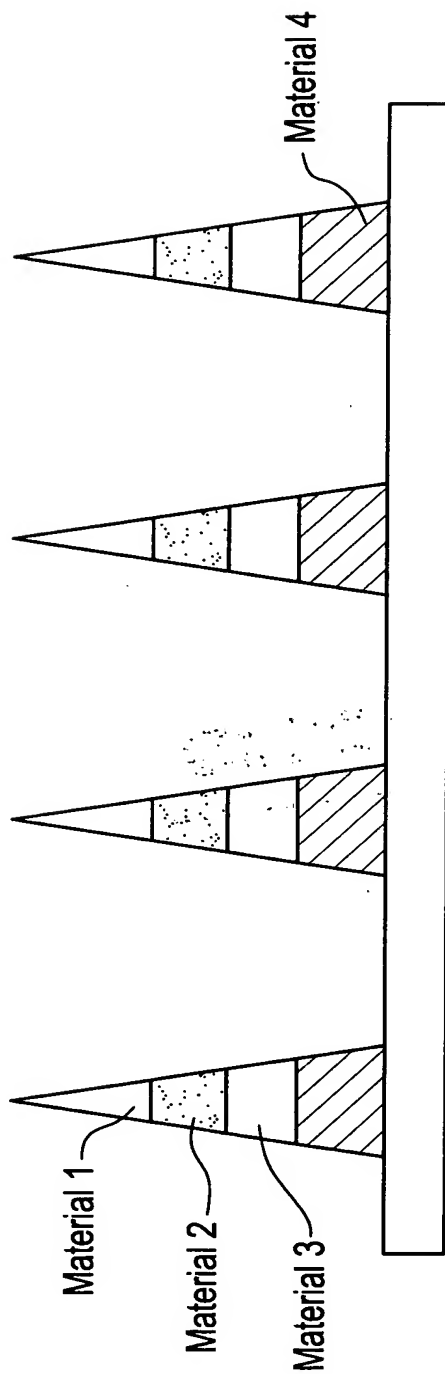
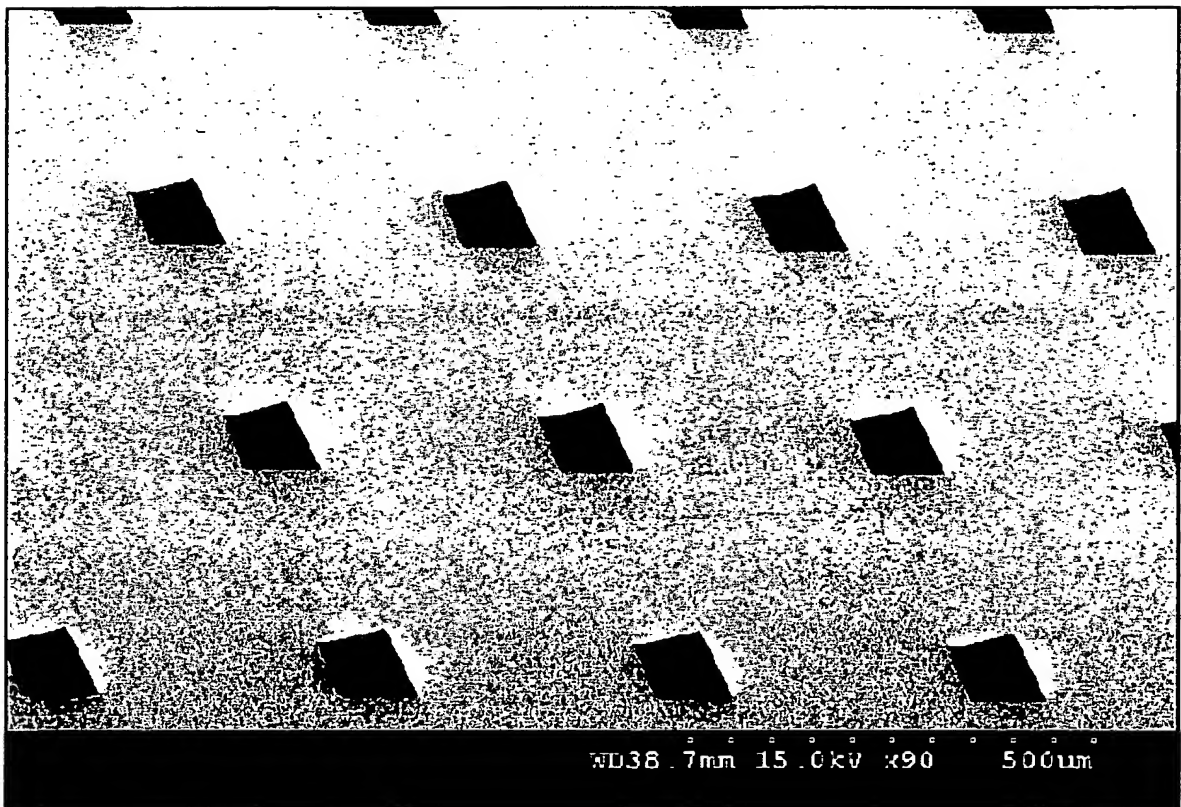


FIG. 3



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FIG. 4



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FIG. 5

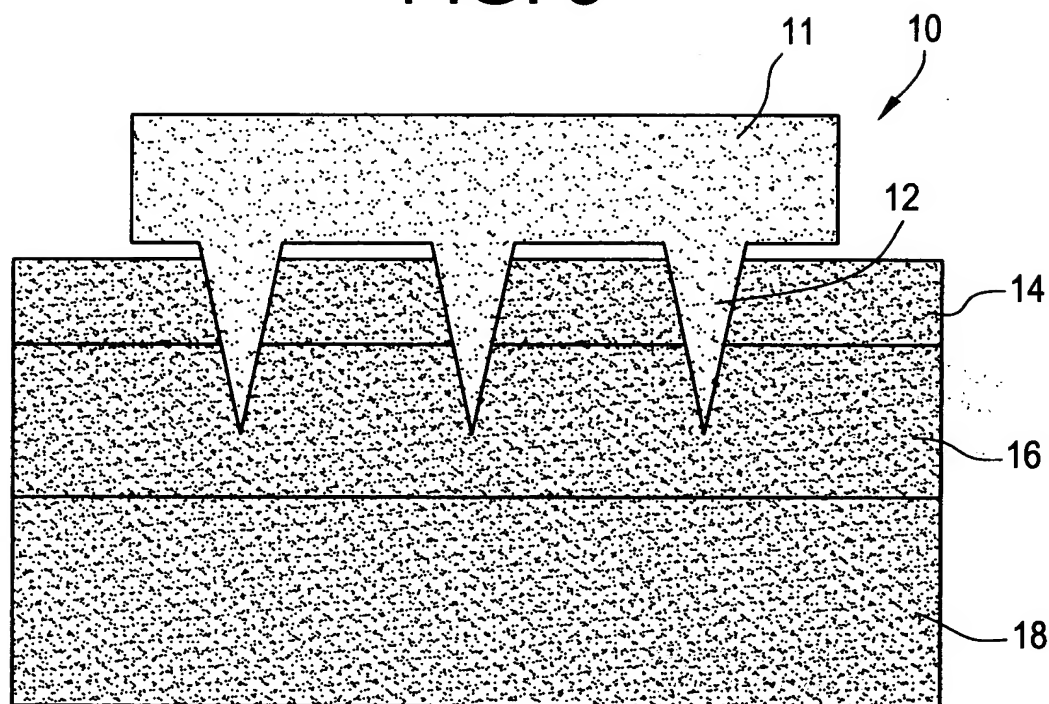


FIG. 6A

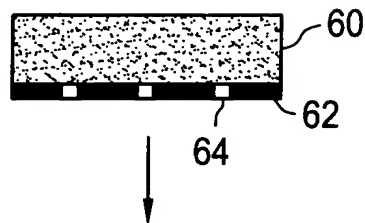


FIG. 6B UV Exposure

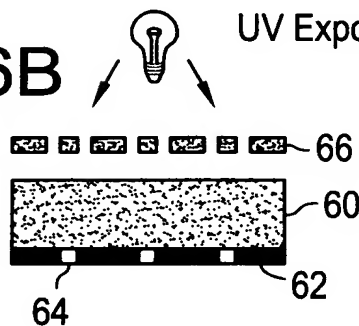
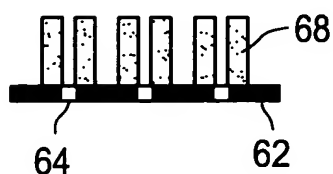


FIG. 6C



FIG. 6D Developing of Non-X-linked SU-8

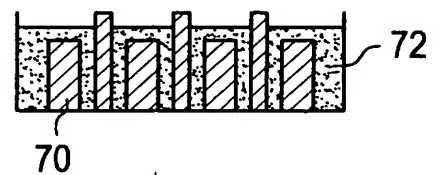


Silicone mold
 (Poly-dimethyl
 siloxane)

FIG. 6G



FIG. 6F



Molding

FIG. 6E

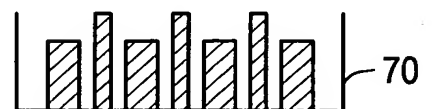


FIG. 7A

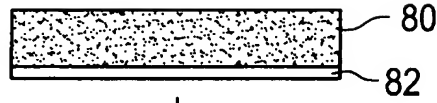


FIG. 7B

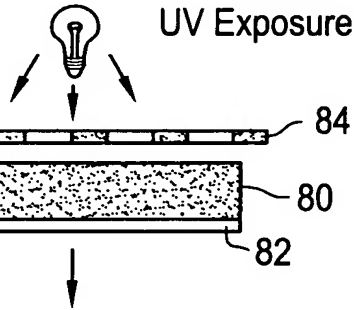


FIG. 7C

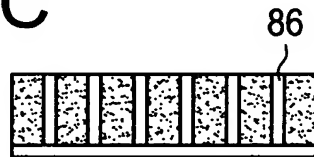


FIG. 7D

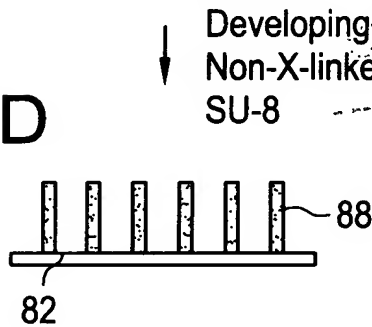


FIG. 7E

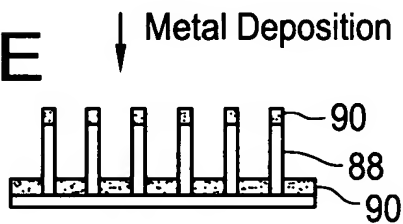


FIG. 7F

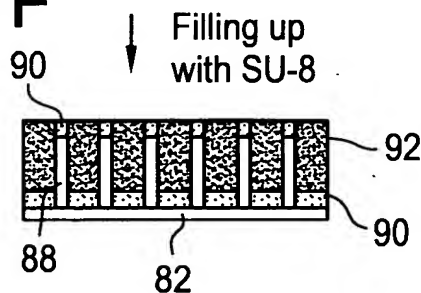


FIG. 7L

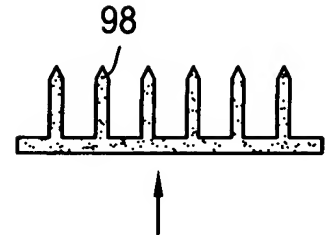


FIG. 7J

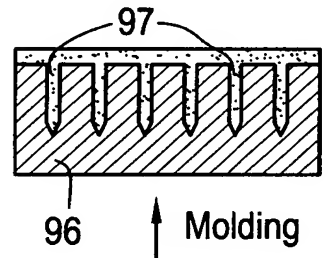


FIG. 7I

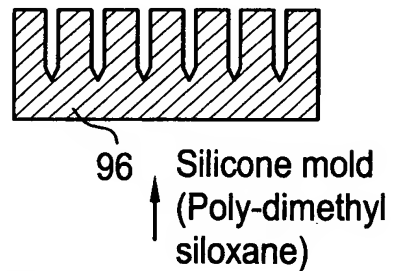


FIG. 7H

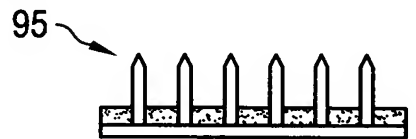
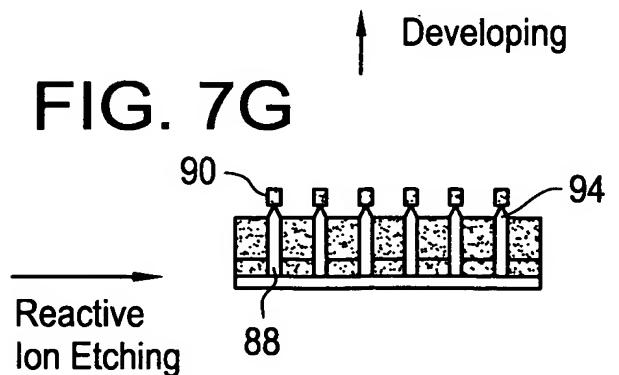


FIG. 7G



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FIG. 8A

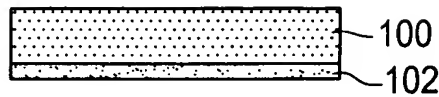
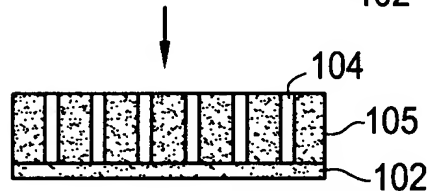
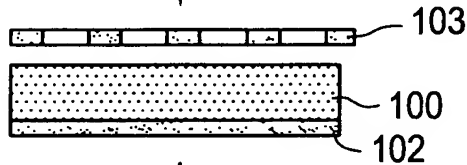


FIG. 8B



Developing



Sacrificial
polymer layer

FIG. 8C

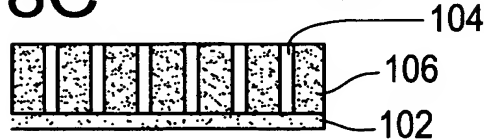


FIG. 8D

Metal Deposition

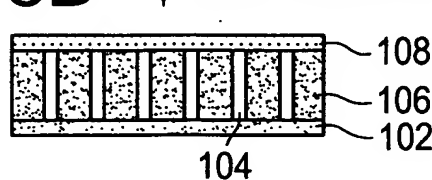


FIG. 8E

Photolithographic
work

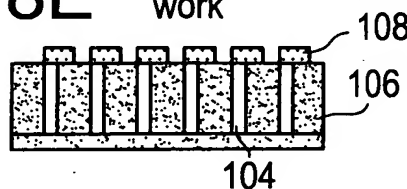


FIG. 8I

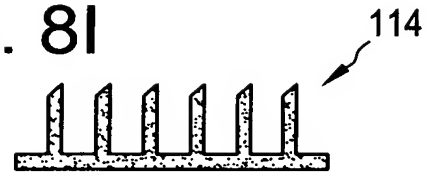
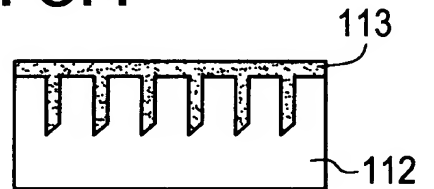


FIG. 8H

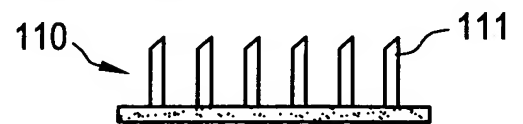


Molding



Silicone mold
(Poly-dimethyl
siloxane)

FIG. 8G



Removing
sacrificial
polymer layer

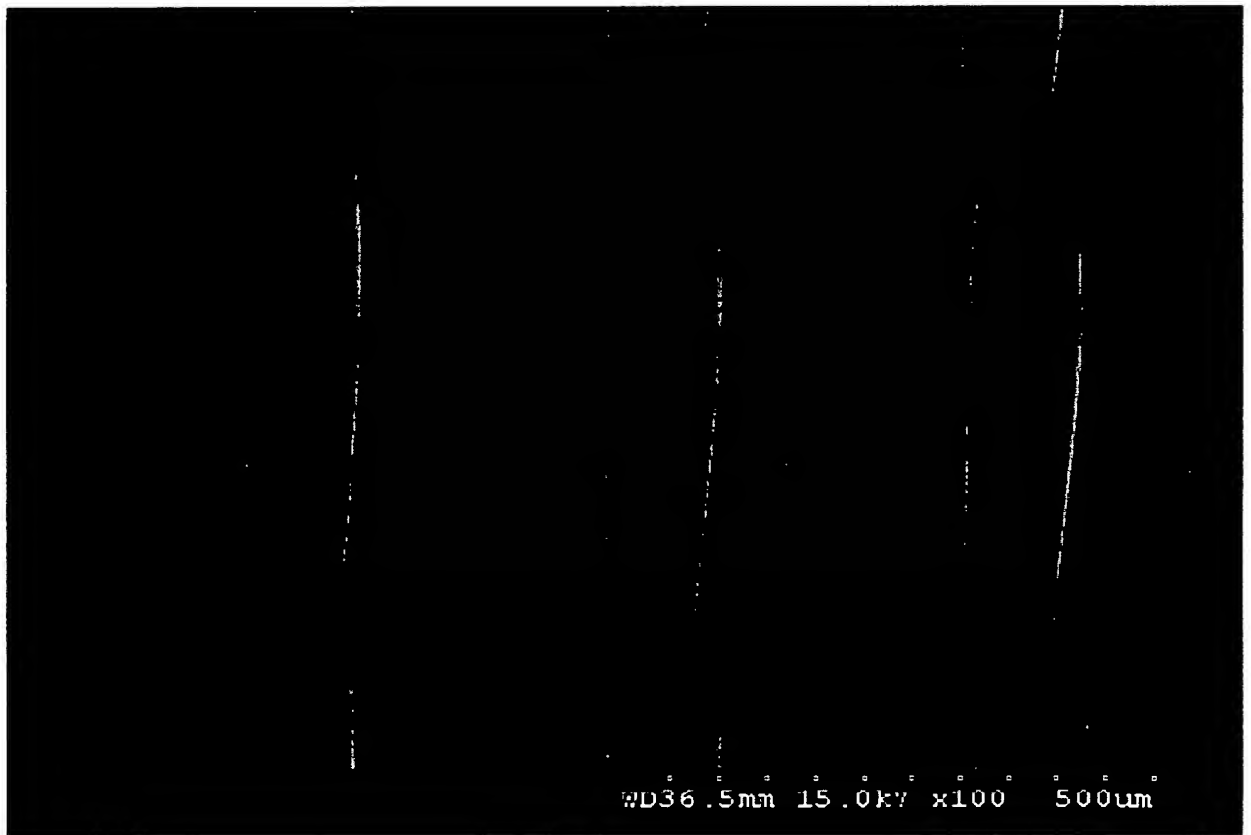
FIG. 8F



Reactive
Ion Etching

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FIG. 9



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FIG. 10A

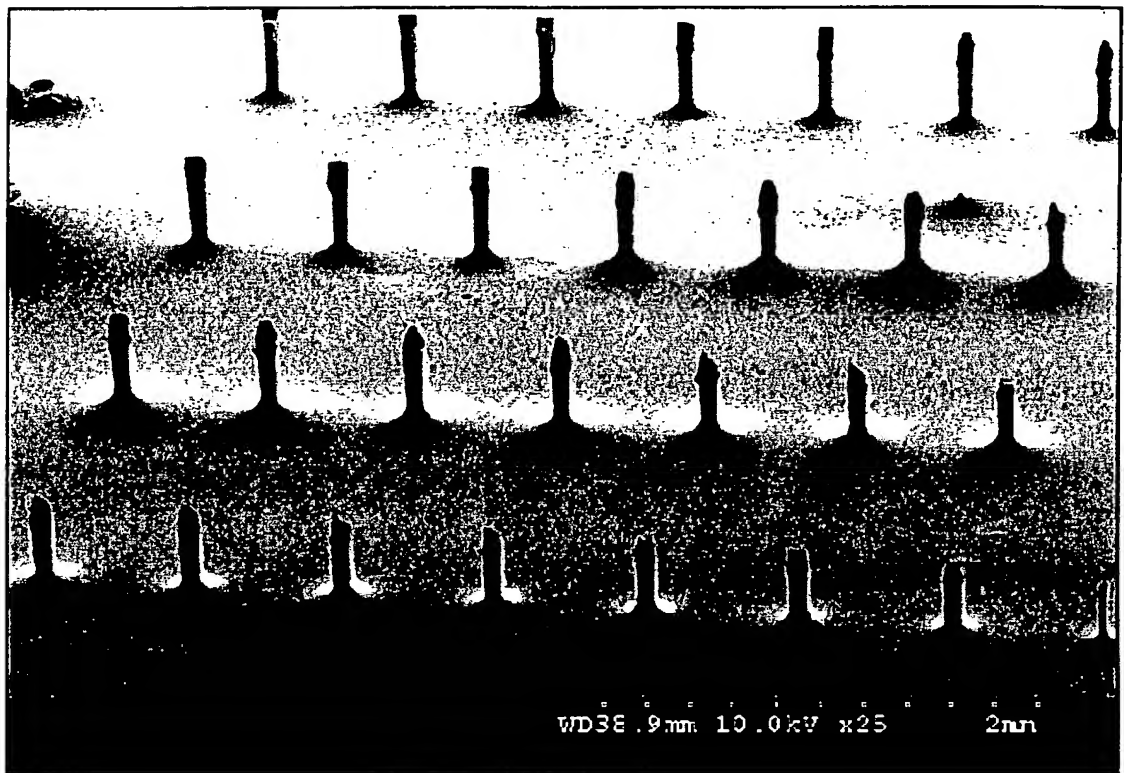
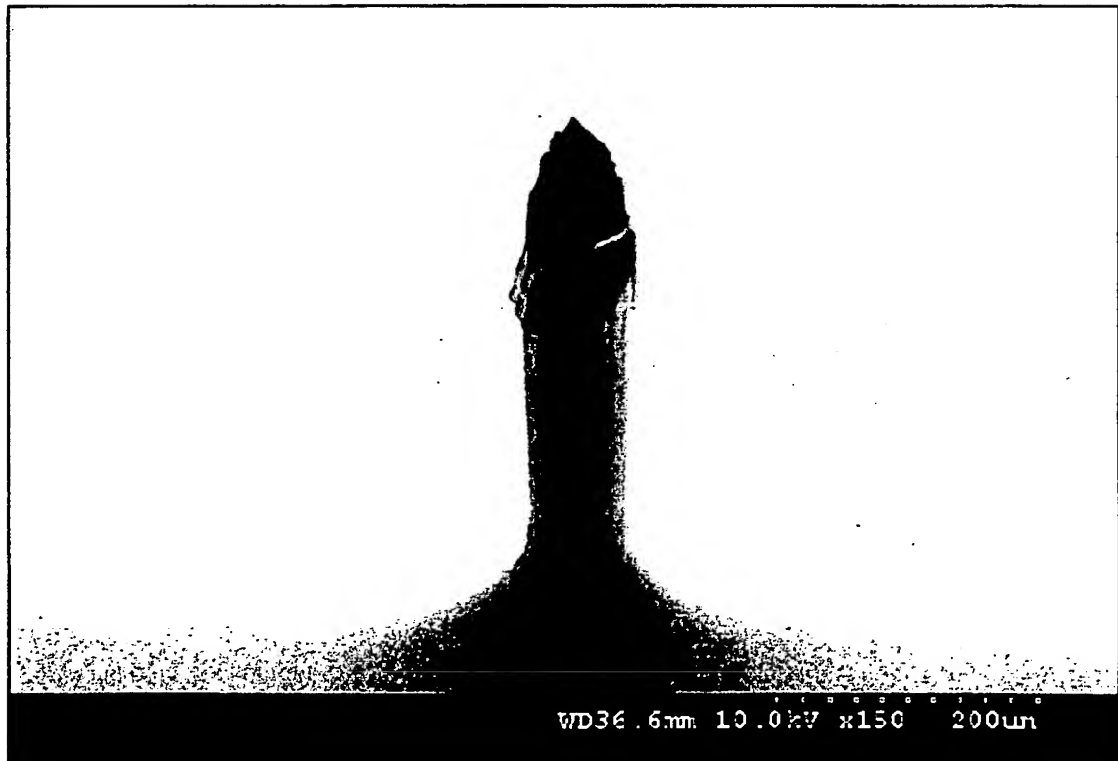


FIG. 10B



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FIG. 11A

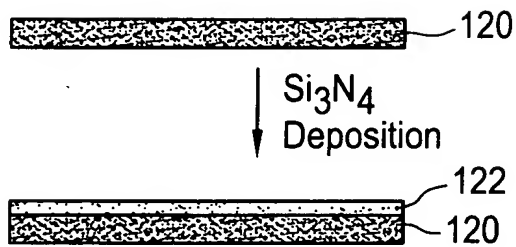


FIG. 11B

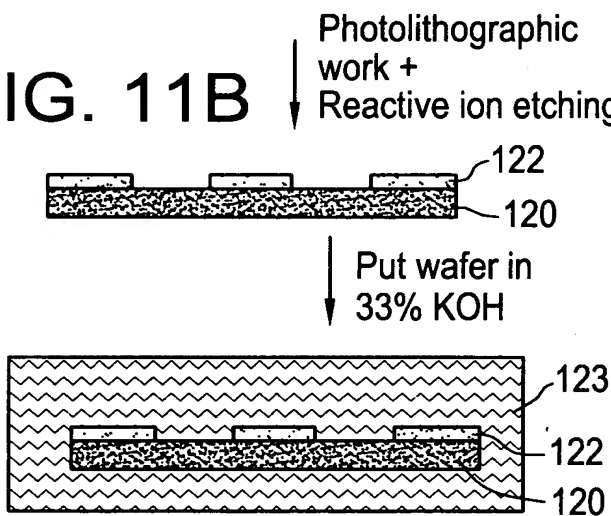


FIG. 11C

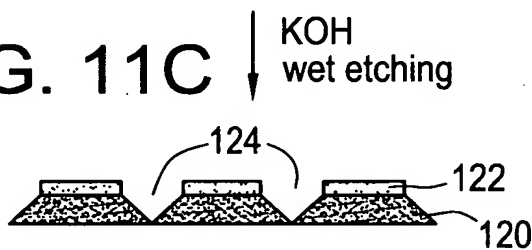
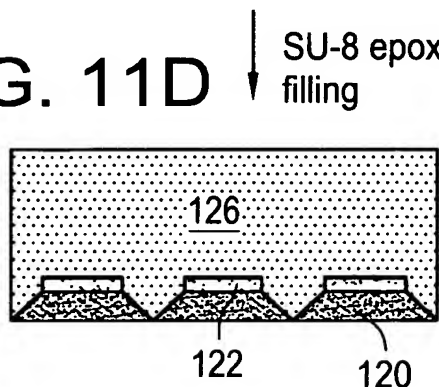


FIG. 11D



Photolitho-
graphic work

FIG. 11G

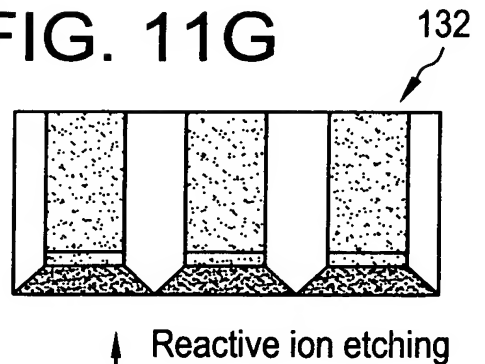


FIG. 11F

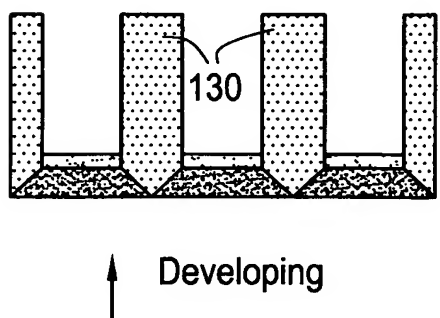
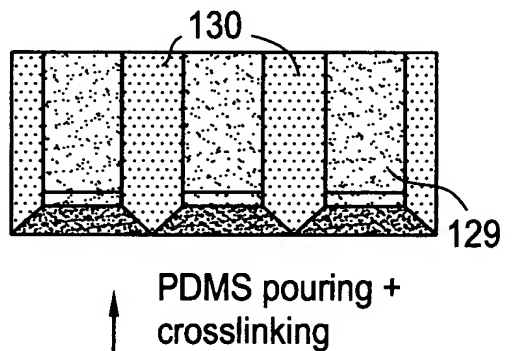
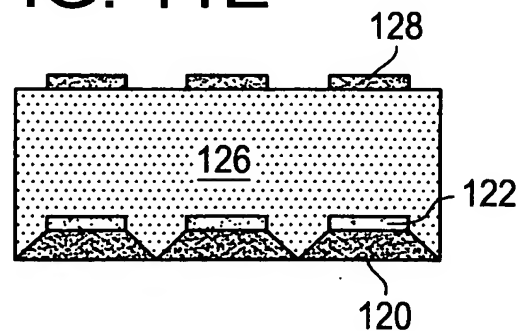
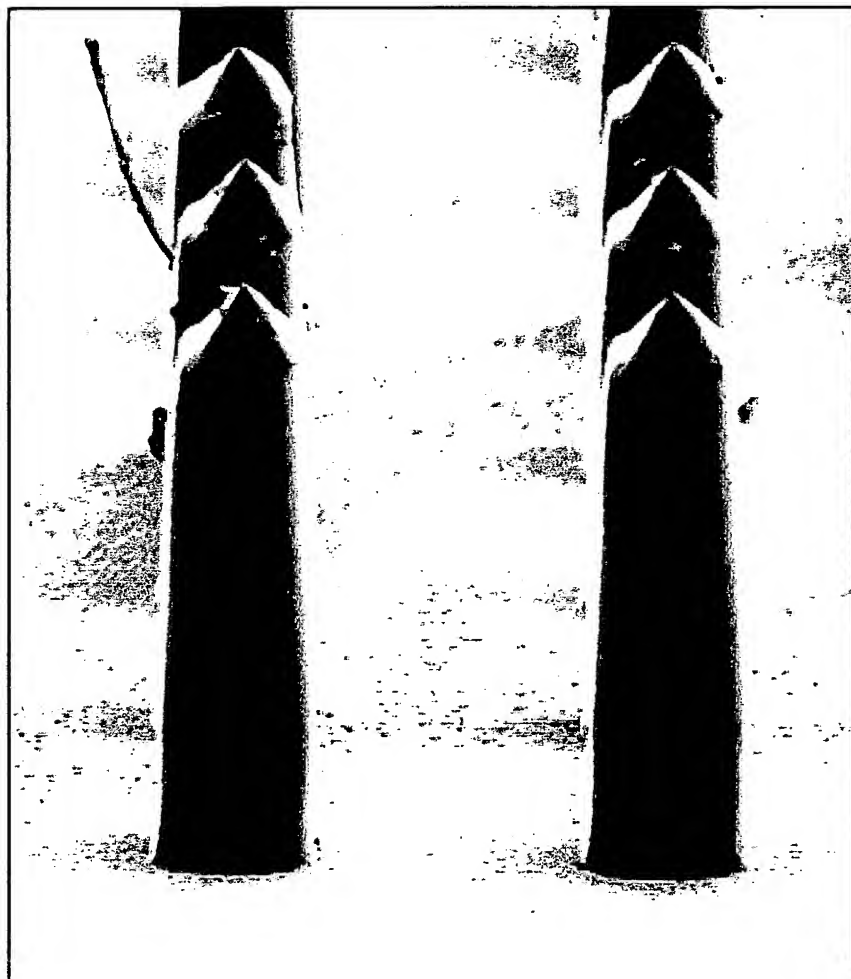


FIG. 11E



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FIG. 12



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